



Water cooled  
screw chiller,  
standard  
efficiency,  
standard sound

EWWD-I-SS

**R-134a**



Screw compressor

- › Stepless single-screw compressor
- › one, two or three truly independent refrigerant circuits
- › Standard electronic expansion valve
- › DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- › Partial and total heat recovery option available

# EWWD-I-SS



Heating only & Cooling only				EWWD-I-SS																				
				340	400	460	550	650	700	800	850	900	950	C10	C12	C13	C14	C15	C16	C17	C18			
Cooling capacity	Nom.			kW			332	392	458	536	637	703	779	841	907	982	1024	1,151	1,200	1,270	1,341	1,395	1,449	1,503
Heating capacity	Nom.			kW			405	481	562	660	783	863	955	1,032	1,112	1,207	1,267	1,412	1,475	1,560	1,648	1,721	1,793	1,866
Power input	Cooling	Nom.		kW			73.5	88.6	104	124	146	160	176	191	205	225	243	262	275	290	307	325	344	363
	Heating	Nom.		kW			73.5	88.6	104	124	146	160	176	191	205	225	243	262	275	290	307	325	344	363
Capacity control	Method			Stepless																				
	Minimum capacity			%			25.0					12.5					8.3							
EER							4.51	4.43	4.39	4.31	4.37	4.38	4.41	4.40	4.42	4.37	4.22	4.40	4.36	4.38	4.37	4.29	4.21	4.14
ESEER							4.55	4.46	4.44	4.37	4.99	5.18	5.00	5.13	4.92	5.05	4.82	4.96	5.00	4.99	5.00	4.91	4.79	
COP							5.51	5.43	5.39	5.31	5.37	5.38	5.41	5.40	5.42	5.37	5.22	5.40	5.36	5.38	5.37	5.29	5.21	5.14
IPLV							5.41	5.28	5.26	5.19	5.83	6.27	5.81	6.16	5.76	5.90	5.64	5.71	5.74	5.76	5.74	5.65	5.45	
Dimensions	Unit	Height		mm		1,821					2,103					2,323								
		Width		mm		1,466					1,350					2,130								
		Depth		mm		3,298					4,116					4,439								
Weight	Unit		kg		2,150	2,160	2,179	2,224	3,909	3,927	3,945	3,971	3,996	4,080	4,092	6,079	6,097	6,136	6,174	6,192	6,210	6,228		
	Operation weight		kg		2,380	2,396	2,410	2,457	4,217	4,228	4,243	4,262	4,288	4,369	4,386	6,628	6,646	6,670	6,699	6,717	6,735	6,761		
Water heat exchanger - evaporator	Type			Single pass shell and tube																				
	Water volume			l		193	183	172	271	263	256	248	241	233	472	504	489	472						
	Water pressure drop	Cooling	Nom.	kPa		37	50	54	62	55	44	57	53	44	54	39	52	55	46	57	62	66	71	
Heating		Nom.	kPa		37	50	54	62	55	44	57	53	44	54	39	52	55	46	57	62	66	71		
Compressor	Type			Single screw compressor																				
	Quantity					1					2					3								
Sound power level	Cooling	Nom.		dBA		94	97					98	99	100			101	103						
Sound pressure level	Cooling	Nom.		dBA		75	76	78			79	80	81		80	81	83							
Operation range	Evaporator	Cooling	Min.	°CDB		-8																		
			Max.	°CDB		15																		
	Condenser	Cooling	Min.	°CDB		20																		
			Max.	°CDB		55																		
Refrigerant	Type/GWP			R-134a/ 1,430																				
Refrigerant charge	Circuits		Quantity		1					2					3									
	Per circuit		kg		54.0	52.0	60.0	55.0	60.0	75.0	55.0	50.0	52.0	51.7	51.3	51.0	50.7	50.3	58.0					
	Per circuit		TCO <sub>2</sub> Eq		77.2	74.4	85.8	78.7	85.8	107.3	78.7	71.5	74.4	73.9	73.4	72.9	72.5	72.0	82.9					
Piping connections	Evaporator water inlet/outlet (OD)			168.3mm													219.1mm							
	Condenser water inlet/outlet (OD)			5"																				
Unit	Starting current		Max		A		330	464			493	627	650	681	703	836	867	898		920	942			
	Running current	Cooling	Nom.		A		119	145	166	196	236	262	288	310	329	355	382	431	450	470	493	520	547	574
		Max		A		204	233	271	299	407	436	465	504	542	570	597	698	737	775	814	841	868	896	
Power supply	Phase/Frequency/Voltage			Hz/V		3~/50/400																		

Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; entering condenser water temp. 30°C; leaving condenser water temp. 35°C; full load operation. Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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